

Patent Claims

- 1) Method for the production of geotextiles with defined isotropy, characterized in that the melt-spun filaments are laid down in at least two layers, wherein the filaments in the first laydown are laid down through guide plates largely parallel next to one another and at an angle adjustable through the guide plates, and in a second laydown in the same manner, however, such that it is mirror-inverted.
- 2) Method as claimed in claim 1, characterized in that the laydown angle is 20 to 70 degrees.
- 3) Method as claimed in one of claims 1 to 2, characterized in that the laydown angle is 20 to 70 degrees, wherein after solidification the ratio of longitudinal to transverse wide width tensile strength is 3.5:1 to 0.3:1.
- 4) Method as claimed in one of claims 1 to 3, characterized in that two to ten layers according to claim 1 are laid down.
- 5) Method as claimed in one of claims 1 to 4, characterized in that the filaments laid down according to claims 1 to 4 are subsequently water-jet solidified or needled.
- 6) Method as claimed in claim 5, characterized in that the filaments according to a method as claimed in claims 1 to 4 are laid down on an endless screen belt, transported on this screen belt through the first solidification stage, wherein the filaments during the entire process are additionally fixed on the screen belt through suction zones and, in this manner, are already sufficiently solidified in the first solidification stage such that the disturbance-free transport without transport belt is possible.
- 7) Geotextiles produced as claimed in one of claims 1 to 6.
- 8) Use of the geotextiles as claimed in claim 7 for reinforcement, as foundation or as drainage installations in streets, roads, bridges, air port runways, embankments, dams and the like.